

[illegible]

## ABSTRACT

The present invention relates to a source-antenna for transmitting/receiving electromagnetic waves comprising an array of  $n$  radiating elements (11<sub>3</sub>, 11<sub>4</sub>) operating in a first frequency band, means (20) with longitudinal radiation operating in a second frequency band, the array and the means with longitudinal radiation having a substantially common phase centre, the  $n$  radiating elements being arranged symmetrically about the longitudinal-radiation means, and each element (11<sub>3</sub>, 11<sub>4</sub>) of the array consisting of a radiating element of the travelling wave type.

Fig. 1